

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
20 March 2003 (20.03.2003)

PCT

(10) International Publication Number  
**WO 03/022884 A2**

- (51) International Patent Classification<sup>7</sup>: **C07K 14/52**
- (21) International Application Number: **PCT/EP02/11045**
- (22) International Filing Date:  
5 September 2002 (05.09.2002)
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
09/945,665 5 September 2001 (05.09.2001) **US**
- (71) Applicants (*for all designated States except US*): **UNIVERSITE PIERRE ET MARIE CURIE (PARIS VI)** [FR/FR]; 4, place Jussieu, F-75252 Paris Cedex 05 (FR). **UNIVERSITE DE GENEVE [CH/CH]**; 24, Rue Général Dufour, CH-1211 Genève 4 (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **GOROCHOV, Guy** [FR/FR]; 9, rue du Dr Laurent, F-75013 Paris (FR). **HARTLEY, Oliver** [CH/CH]; 19, Chemin Charles-Poluzzi, CH-1227 Carouge (CH). **DORGHAM, Karim** [FR/FR]; 9, Allée des Carrières de la Croix, F-94200 Ivry-Sur-Seine (FR). **DEBRE, Patrice** [FR/FR]; 3, rue Jacob, F-75006 Paris (FR). **OFFORD, Robin** [CH/CH]; 31, Route Pré-Marais, CH-1233 Bernex (CH).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: METHODS FOR CONSTRUCTION AND SCREENING OF LIBRARIES OF CHEMOKINE VARIANTS

(57) Abstract: The present invention provides a method for the design and/or the selection of agonist or antagonist chemokine variants combining a phage display technology and a screening on living cells expressing the receptor of the corresponding native chemokine. It also provides RANTES variants having agonist properties towards said receptor, and methods for preventing and/or curing viral diseases, as well as clues for preventing and/or curing inflammatory or malignant diseases.

WO 03/022884 A2